CURRICULUM VITAE

12-07-87

NAME: [redacted]k

SOCIAL SECURITY NUMBER:

PLACE OF BIRTH: St. Louis, Missouri

DATE OF BIRTH: January 17, 1948

CITIZENSHIP: U.S.A.

PERSONAL DATA: Married, three children

EDUCATION: A.B., Washington University, 1970
M.D., Ph.D., Washington University School of Medicine, 1976

TRAINING:

1976-1977 - Intern in Medicine, University of Chicago Hospitals and Clinics, Chicago, Illinois

1977-1978 - Resident in Laboratory Medicine, Washington University School of Medicine, St. Louis, Missouri

1978-1980 - Resident in Medicine, Washington University School of Medicine, St. Louis, Missouri

1980-1982 - Fellow in Clinical Pharmacology, Vanderbilt University, Nashville, Tennessee

POSITIONS:

1982-1986 Assistant Professor of Medicine, Pharmacology and Pathology, Washington University, St. Louis, Missouri

1986-1987 Associate Director of Exploratory Clinical Pharmacology, CIBA-GEIGY Corporation, Pharmaceuticals Division, Summit, New Jersey

1987- Assistant Professor of Medicine and Pathology, Washington University, St. Louis, Missouri

LICENSURE: Missouri and Illinois (Physician)

CERTIFICATION: Diplomate, National Board of Medical Examiners (1977)
American Board of Internal Medicine (1980)

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HONORS:

1) National Merit Scholarship, 1966 - 1970
2) First place, state essay contest: J. Turk, "The Limitations to Constitutional Rights". J. Missouri Bar 22, 303 (1966)
3) Wallace Award in History, Washington University, 1968
4) Phi Beta Kappa, 1969
5) National Science Foundation Undergraduate Research Fellowship, 1969
6) A.B. summa cum laude, 1970
7) Cori Award in Biochemistry, Washington University School of Medicine, 1972
8) Alpha Omega Alpha, 1975
9) Career Development Award, Pharmaceutical Manufacturer's Association, 1983-85
10) Research Career Development Award, National Institutes of Health, 1987-1992.

OTHER:

AWARDS FOR RESEARCH FUNDING:

1) Washington University Diabetes Research and Training Center, 1982
2) Washington University Biomedical Research Grants Program, 1983
3) Pharmaceutical Manufacturer's Association, Research Starter Grant, 1983-1985
4) Pharmaceutical Manufacturer's Association, Career Development Award, 1983-1985
5) American Diabetes Association, 1983-1985 (declined)
6) Juvenile Diabetes Foundation, 1983-1985
7) National Institutes of Health, RO1 AM34388, 1984-1986 and 1987-1988
8) National Institutes of Health K04 DK 01553, 1987-1992

REVIEWER OF MANUSCRIPTS FOR:

1) Journal of Biological Chemistry
2) Journal of Clinical Investigation
3) American Journal of Physiology
4) Biochemical Pharmacology
5) Analytical Biochemistry
6) Journal of Medicinal Chemistry
7) Journal of the American Medical Association
8) Clinical Chemistry
9) Journal of Pharmacology and Experimental Therapeutics
10) Prostaglandins
11) Life Sciences
12) Diabetes

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REVIEWER OF GRANT PROPOSALS FOR:

1) National Institutes of Health (Special Study Sections)
2) Veterans Administration Hospitals

INVITED LECTURES

1) Quantitative studies of arachidonate monooxygenase product formation in pancreatic islets. Winter Prostaglandins Conference, Keystone, Colorado, 1984.
2) Arachidonic acid metabolites and insulin secretion. Department of Physiological Chemistry, Ohio State University, Columbus, Ohio, 1985.
3) Phospholipid-derived mediators and insulin secretion, Department of Pharmacology, Southwestern Medical School, Dallas, Texas, 1987.

PUBLICATIONS:

Original articles

1. Turk, J., Panse, G. and Marshall, G.: Resolution and amino protection of alpha-methyl amino acids. J. Organ. Chem. 40:953, 1975.

2. Turk, J. and Marshall, G.: Alpha-methyl substrates of Carboxypeptidase A. A steric probe of the active site. Biochemistry 14:2631, 1975.

3. Turk, J., Needleman, P. and Marshall, G.: Alkylating analogs of bradykinin. J. Med. Chem. 18:1135, 1975.

4. Turk, J., Needleman, P. and Marshall, G.: Analogs of bradykinin with restricted conformational freedom. J. Med. Chem. 18:1139, 1975.

5. Turk, J., Needleman, P. and Marshall, G.: Analogs of angiotensin II with restricted conformational freedom including a new antagonist. Mol. Pharmacol. 12:217, 1976.

6. Turk, J., Weiss, S., Davis, J. and Needleman, P.: Fluorescent derivatives of prostaglandins and thromboxanes for liquid chromatography. Prostaglandins 16:291, 1978.

7. Weiss, S., Turk, J. and Needleman, P.: A mechanism for the hydroperoxide mediated inactivation of prostacyclin synthetase. Blood 53:1191, 1979.

8. Turk, J., Wyche, A. and Needleman, P.: Inactivation of vascular prostacyclin synthetase by platelet lipoxygenase products. Biochem. Biophys. Res. Commun. 95:1628, 1980.

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PUBLICATIONS (continued):

9. Turk, J., Maas, R., Brash, A., Roberts, L. and Oates, J.: Arachidonic acid 15-lipoxygenase products from human eosinophils. J. Biol. Chem. 257:7068, 1982.

10. Maas, R., Turk, J., Oates, J. and Brash, A.: Formation of a novel dihydroxy acid from arachidonic acid by lipoxygenase catalyzed double oxygenation by rat and human leukocytes. J. Biol. Chem. 257:7056, 1982.

11. Maas, R., Turk, J., Oates, J.A., Surratt, R., Lawson, J., Porter, A.T., Ingram, C., and Brash A.: Formation of a novel dihydroxy acid from arachidonic acid by lipoxygenase catalyzed double oxygenation in rat mononuclear cells and human leukocytes. (Supplement) J. Biol. Chem. 257:7065, 1982.

12. Turk, J., Rand, T., Maas, R., Lawson, J., Brash, A., Roberts, L. and Oates, J.: Identification of lipoxygenase products of arachidonic acid metabolism in stimulated murine eosinophils. Biochim. Biophys. Acta. 750:78, 1983.

13. Rand, T., Turk, J., Maas, R. and Colley, D.: Arachidonic acid metabolism in the murine eosinophil. Influence of lipoxygenase products on the migration response to the lymphokine eosinophil stimulation promoter. J. Immunol. 129:1239, 1982.

14. Turk, J., Henderson, W., Klebanoff, S., and Hubbard, W. Iodination of arachidonic acid mediated by eosinophil peroxidase, myeloperoxidase, and lactoperoxidase: Identification and comparison of products. Biochim. Biophys. Acta. 751:189, 1983.

15. Turk, J., Colca, J., Kotagal, N., and McDaniel, M.: Arachidonic acid metabolism in isolated pancreatic islets I. Identification and quantitation of lipoxygenase and cyclooxygenase products. Biochim. Biophys. Acta 794:110, 1984.

16. Turk, J., Colca, J., Kotagal, N., and McDaniel, M. Arachidonic acid metabolism in isolated pancreatic islets II. The influence of glucose and of inhibitors of arachidonate metabolism on insulin secretion and metabolite synthesis. Biochim. Biophys. Acta 794:125, 1984.

17. Turk, J., Colca, J., and McDaniel, M. Arachidonic acid metabolism in isolated pancreatic islets III. Effects of exogenous lipoxygenase products and inhibitors on insulin secretion. Biochim. Biophys. Acta 834:23, 1985.

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PUBLICATIONS (continued):

18. Turk, J., Wolf, B., Comens, P., Colca, J., Jakschik, B., and McDaniel, M.: Arachidonic acid metabolism in isolated pancreatic islets IV. Negative ion-mass spectrometric quantitation of monooxygenase product synthesis by liver and islets. Biochim. Biophys. Acta 835:1, 1985.

19. Wolf, B., Turk, J., Sherman, W., and McDaniel, M.: Intracellular Ca^{2+} mobilization by arachidonic acid. Comparison with myo-inositol 1,4,5-trisphosphate in isolated pancreatic islets, J. Biol. Chem. 261(8):3501, 1986.

20. Turk, J., Wolf, B., and McDaniel, M.: Measurement of subnanogram quantities of arachidonic acid from isolated pancreatic islets by negative ion mass spectrometry (Supplement). J. Biol. Chem. 261(8):3510, 1986.

21. Wolf, B.A., Turk, J., Comens, P.G., Sherman, W.R., and McDaniel, M.L.: Arachidonic acid mobilizes intracellular Ca^{2+} in islets. Ann. N.Y. Acad. Sci. 494:168-170, 1987.

22. Turk, J., Wolf, B., and McDaniel, M.: Quantitation of myo-inositol as the hexakis(trifluoroacetyl) derivative with negative ion-chemical ionization mass spectrometry. Biomed. and Env. Mass Spec. 13:237, 1986.

23. Turk, J., Wolf, B.A., and McDaniel, M.L: Glucose-induced accumulation of inositol-trisphosphates in isolated pancreatic islets. Predominance of the 1,3,4-isomer. Biochem. J. 237:259, 1986.

24. Turk, J., Wolf, B.A., Lefkowith, J.B., Stump, W.T., and McDaniel, M.L. Glucose-induced phospholipid hydrolysis in isolated pancreatic islets. Quantitative effects on the phospholipid content of arachidonate and other fatty acids. Biochim. Biophys. Acta 879:399, 1986.

25. Wolf, B.A., Colca, J.R., Comens, P.G., Turk, J., and McDaniel, M.L.: Glucose-6-phosphate regulates Ca^{2+} steady state in endoplasmic reticulum of islets. A possible link in glucose-induced insulin secretion. J. Biol. Chem. 261:16284, 1986.

26. Mangino, M., Anderson, C., DeSchryver, K., Tyler, J., Sicard, G. and Turk, J.: Eicosanoid synthesis associated with renal allograft rejection. Transplantation Proceedings 18:63, 1986.

27. Mangino, M.J., Anderson, C.B., DeSchryver, K., Tyler, J.D., Sicard, G.A. and Turk, J: Arachidonic acid metabolism and renal allograft rejection. Transplantation Proceedings 19:444-445, 1987.

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PUBLICATIONS (continued):

28. Mangino, M., Anderson, C., DeSchryver, K. and Turk, J. Arachidonate lipoxygenase products and renal allograft rejection in dogs. Transplantation, in press, 1987.

29. Chan, K.-M., and Turk, J. Mechanism of arachidonic acid-induced Ca^{+2} mobilization from rat liver microsomes. Biochim. Biophys. Acta 928:186, 1987.

30. Wolf, B.S., Florholmen, J., Turk, J., and McDaniel, M.L. Studies of the Ca^{+2} requirements for glucose and carbachol-induced augmentation of inositol trisphosphate and inositol tetrakisphosphate accumulation in digitonin-permeabilized islets. Evidence for a glucose recognition site in insulin secretion. J. Biol. Chem., in press.

Reviews and Book Chapters:

31. Marshall, G., Bosshard, H., Kendrick, N., Turk, J., Balasubramanian, T., Cobb, S., Moore, M., LeDuc, L. and Needleman, P.: Alpha-methyl amino acids in peptide chemistry. In: Peptides 1976 (Loffet, A., ed.), Editions del Universite de Bruxelles. Brussels, Belgium, 1976, pp. 361-364.

32. Turk, J. and Needleman, P.: Coronary prostacyclin synthesis and models for its modulation by interactions with platelets. In: Acetylsalicylic Acid: New Uses for an Old Drug. (H.J.M. Barnett, J. Hirsh, and J. Fraser-Mustard, eds.) Raven Press. New York, 1982, p. 165.

33. Turk, J., Maas, R., Roberts, L., Brash, A., Oates, J.: Conjugated triene metabolites of arachidonic acid derived from the dioxygenation at carbon-15: Origin from the eosinophil and mechanisms of biosynthesis. Adv. Prost. Thromb. Leukotr. Res. 11:123, 1983

34. Needleman, P., Turk, J., Jakschik, B., Lefkowith, J., and Morrison, A.: Arachidonic Acid Metabolism. Ann. Rev. Biochem. 55:69-102, 1986.

35. Turk, J., Wolf, B.A., and McDaniel, M.L. The role of phospholipid-derived mediators including arachidonic acid, its metabolites, and inositoltrisphosphate and of intracellular Ca^{2+} in glucose-induced insulin secretion by pancreatic islets. Prog. Lipid Res. 26:125-181, 1987.

36. McDaniel, M.L., Wolf, B.A. and Turk, J.: Signal transduction and insulin secretion. Role of intracellular Ca^{+2}, inositol trisphosphate, and arachidonic acid. Chapter in Pathogenesis and New Approaches to the Study of Non-Insulin Dependent Diabetes Mellitus. (Chang, A.Y., editor). Alan R. Liss, Inc., New York (in press, 1987).

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PUBLICATIONS (continued):

37. Wolf, B.A., Colca, J., Turk, J., Florholmen, J. and McDaniel, M.L. Regulation of Ca^{2+} homeostasis by the islet endoplasmic reticulum and its role in insulin secretion. Am. J. Physiol., in press (1988).

Case reports and clinical observations

38. Turk, J., Dietzler, D. and Weidner, N.: Theophylline toxicity. (McDonald, J. and Ladenson, J., eds.) Clin. Chem. 24:1603, 1978.

39. Roberts, L., Turk, J. and Oates, J.: Shock syndrome associated with mastocytosis: Pharmacologic reversal of the acute episode and therapeutic prevention of recurrent attacks. Adv. Shock Res. 8:145-152, 1982.

40. Turk, J., Oates, J.A., Roberts, L.: Intervention with epinephrine in hypotension associated with mastocytosis. J. All. Clin. Immunol. 71:189, 1983.

41. Turk, J., Morrell, L., and Avioli, L.V.: Ethylene Glycol intoxication. Archives Int. Med. 146, 1601-1603, 1986.

Manuscripts submitted

42. Wolf, B.A., Hughes, J.H., Florholman, J., Turk, J., and McDaniel, M.D. Interleukin-1 inhibition of glucose-induced insulin secretion by Islets of Langerhans: Role of Ca^{++}, inositol phosphates, and glucose metabolism. Submitted to J. Biol. Chem. (1987).

Manuscripts in preparation

43. Turk, J., Wolf, B.A., Stump, W.T. and McDaniel, M.D. Stereochemical analysis of subnanogram amounts of 12-hydroxy, 5,8,10,14-tetraenoic acid by chiral phase high performance liquid chromatography followed by stable isotope dilution gas chromatography mass spectrometry. In preparation (1987).

44. Turk, J., Wolf, B.A. and McDaniel, M.L. The optical configuration of the arachidonate 12-lipoxygenase product 12-HETE from isolated pancreatic islets. In preparation (1987).

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